

## DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Use Advanced Web Creation Techniques

Course Code: 034393 CIP Code: 11.0103

### COURSE INTRODUCTION:

**Course Rationale:** Rapid technological advancement by businesses to reach global markets, greater focus on industry certifications and national skill standards, expansion of responsibilities of office workers, portability of employee skills—all these increase the need for business students in career education programs to have skills in Web design and maintenance.

**Course Description:** This course deals with the use of Web programming languages (HTML, Javascript, etc.), graphics applications, and other Web authoring tools to design, edit, launch, and maintain Web sites and pages. Such topics as Internet theory, Web page standards, Web design elements, user interfaces, special effects, navigation, and emerging Web technologies will be included.

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UNIT DESCRIPTION: In this unit, students will learn how to control the visual presentation of web page elements using Cascading Style Sheets (CSS). The students will learn to add behavior to their web pages using scripts, which make them interactive.		SUGGESTED UNIT TIMELINE: 30-40 days  CLASS PERIOD (min.): 50 minutes					
ESSENTIAL QUESTIONS:							
1. How do you choose between HTML, Cascading Style Sheets (CSS), and Scripting when developing a web page?							
ESSENTIAL MEASURABLE LEARNING OBJECTIVES		CCSS LEARNING GOALS (Anchor Standards/Clusters)	CROSSWALK TO STANDARDS				
			GLEs/CLEs	PS	CCSS	NBEA	DOK
1. Create interactive design elements (e.g., rollover, swap image, slideshow)						IT.V.3.5	4
2. Incorporate browser plug-ins (e.g., Adobe Acrobat.pdf, Flash.swf, Quicktime.mov)						IT.VII.3.1 IT.V.3.5	4
3. Use Cascading Style Sheets (CSS) to control page elements (e.g., external, internal, inline)						IT.V.3.5	4
4. Apply animation tools and techniques						IT.V.3.5	4
ASSESSMENT DESCRIPTIONS*: (Write a brief overview here. Identify Formative/Summative. Actual assessments will be accessed by a link to PDF file or Word doc. )							
*Attach Unit Summative Assessment, including Scoring Guides/Scoring Keys/Alignment Codes and DOK Levels for all items. Label each assessment according to the unit descriptions above ( i.e., Grade Level/Course Title/Course Code, Unit #.)							
Obj. #	INSTRUCTIONAL STRATEGIES (research-based): (Teacher Methods)						
1, 4	1. Class Discussion - Basic Flash Tips Handout						

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1, 2, 4	2. Class Discussion and Tutorial – Motion Guide Advanced Flash Animation
2, 3	3. Class Discussion – 10 Most Annoying Web Site Mistakes
<b>Obj. #</b>	<b>INSTRUCTIONAL ACTIVITIES: (What Students Do)</b>
1, 4	1. Class Discussion – Basic Flash Tips Handout
1, 2, 4	2. Class Discussion - Motion Guide Advanced Flash Animation; Class Tutorial – Website Helpers and Website Usability
2, 3	3. Class Discussion – Article Plugin Free Browsing via <a href="http://msdn.microsoft.com/en-us/library/ie/hh968248(v=vs.85).aspx">http://msdn.microsoft.com/en-us/library/ie/hh968248(v=vs.85).aspx</a>
<b>UNIT RESOURCES: (include internet addresses for linking)</b>	